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APPLICATION NO	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/772,632		02/05/2004	DiplIng. Daniel Supper	075791.0239	5649	
5073	7590	10/11/2006		EXAMINER		
	BOTTS L.		ROJAS, OMAR R			
SUITE 60	S AVENUE 0	5	ART UNIT	PAPER NUMBER		
DALLAS,	TX 7520	1-2980	2874			
				DATE MAILED: 10/11/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ap	plication No.	Applicant(s)					
Office Action Summary			0/772,632	SUPPER, DIPL	ING. DANIEL				
			aminer	Art Unit					
		On	nar Rojas	2874					
Period for	The MAILING DATE of this communication The MAILING DATE of this communication.	nication appears	on the cover sheet	with the correspondence a	ddress				
WHICI - Extens after S - If NO - Failure Any re	PRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE Maions of time may be available under the provision: IX (6) MONTHS from the mailing date of this com- beriod for reply is specified above, the maximum is to reply within the set or extended period for reply ply received by the Office later than three months of patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a). munication. tatutory period will app y will, by statute, caus	OF THIS COMMUNION IN no event, however, may only and will expire SIX (6) Me the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).					
Status	·								
1)[Responsive to communication(s) file	ed on <i>02 June 2</i>	2006.						
•—	•	2b)⊠ This acti			,				
,	· · · · · · · · · · · · · · · · · · ·								
, —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositio	on of Claims								
4)🛛	Claim(s) 1-21 is/are pending in the	application.							
4	4a) Of the above claim(s) <u>20 and 21</u> is/are withdrawn from consideration.								
5) 🗌 (Claim(s) is/are allowed.								
6)🛛 (Claim(s) <u>1,4-14,18 and 19</u> is/are rejected.								
7)🖾 (Claim(s) 2,3 and 15-17 is/are objected to.								
8) 🗌 (Claim(s) are subject to restri	ction and/or ele	ction requirement.						
Application	on Papers								
9)□ T	The specification is objected to by the	ne Examiner.							
-	he drawing(s) filed on is/are		d or b)⊡ objected t	to by the Examiner.					
,	Applicant may not request that any obje	ection to the draw	ring(s) be held in abey	vance. See 37 CFR 1.85(a).					
1	Replacement drawing sheet(s) includin	g the correction is	s required if the drawi	ng(s) is objected to. See 37 (CFR 1.121(d).				
11)[] T	he oath or declaration is objected t	o by the Exami	ner. Note the attach	ned Office Action or form F	PTO-152.				
Priority u	nder 35 U.S.C. § 119								
•	Acknowledgment is made of a claim All b) Some * c) None of:			. § 119(a)-(d) or (f).					
	1. Certified copies of the priority			A 11 11 A					
	2. Certified copies of the priority				-1 Oh				
,	3. Copies of the certified copies			en received in this Nationa	ai Stage				
* 0	application from the Internation ee the attached detailed Office action			ot received					
. 3	ee the attached detailed Office acti	on tot a list of th	ie certined copies ii	ot received.					
Attachment	• •		_						
	of References Cited (PTO-892)	DTO 048\		w Summary (PTO-413) lo(s)/Mail Date					
	of Draftsperson's Patent Drawing Review (ation Disclosure Statement(s) (PTO/SB/08)		5) Notice of	of Informal Patent Application					
	No(s)/Mail Date <u>06022006</u> .		6) 🔀 Other: <u>/</u>	Detailed Action.					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see the remarks filed June 2, 2006, with respect to the rejection(s) of claim(s) 1-19 under 35 U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art references. See the detailed remarks below.

Claim Objections

- 2. Claim 10 is objected to because of the following informalities: Claim 10 recites the limitation "the ferrule is pushed onto the fiber at an end of the fiber which is remote from the end face" but lacks a clear antecedent basis for this limitation because it appears to refer to a ferrule different from that of base claim 7. Appropriate correction is required.
- 3. Claim 15 is objected to because of the following informalities: Claim 15 recites the limitation "the region of the passage hole" but lacks a clear antecedent basis for this limitation. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 6. Claim 9 recites the limitation "the ferrule is pushed into a region of the ferrule." This limitation is nonsensical and renders the claim indefinite.

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7. Because the scope of claim 9 is indeterminable, it has not been examined for patentability purposes.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1, 4-8, 10-13, and 19 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Patent No. 4,673,244 to Miles.

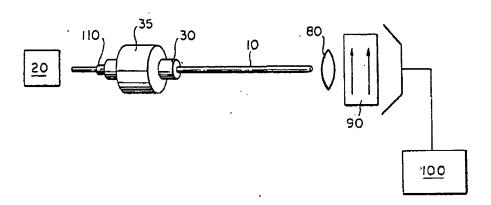
In re claim 1, Miles discloses a method for coupling a surface-oriented optoelectronic component 20/120 to an end face of an optical fiber 10, comprising:

arranging the fiber 10 at a holding point a predetermined distance from the end face in such a way that the end face can perform a rotating movement about the holding point; and bringing the end face of the fiber 10 and the component 20/120 close to one another in the context of a coarse adjustment in such a way that a fine adjustment is subsequently effected between the component and the fiber in the context of an automatic self-alignment by rotating the fiber about the holding point (column 4, lines 22-63 and column 5, lines 39-44). Note that the fiber alignment in Miles is considered automatic self-alignment because it is performed by a machine or computer (i.e., see Figure 3). Figure 2 of Miles is reproduced below.

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FIG. 2



In re claims 4-8, 10-13, and 19, the recited limitations are shown or clearly suggested in view of Figures 2 and 4 of Miles which further show a housing 130/140, a strain relief device 110/150, and a coupling device 80/90/100 remote from a fiber endface.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 14 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miles as applied to claim 4 above, and further in view of US 6,364,541 B1 to Nesnidal et al. ("Nesnidal").

In re claims 14 and 18, the previous remarks concerning Miles are incorporated herein.

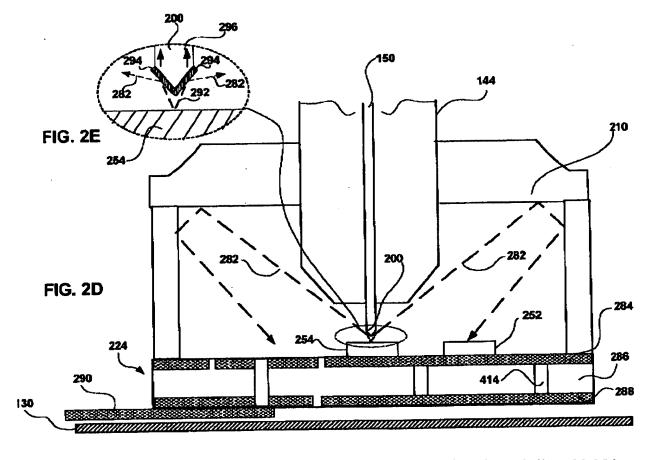
Miles only differs from claims 14 and 18 in that Miles does not teach forming a passage hole in a carrier of the housing; fixing the component on a side of the carrier in such a way that the

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optically active zone of the component faces the passage hole; directing the fiber through the passage hole; wherein the surface-oriented optoelectronic component comprises a VCSEL laser diode, an LED or a photodiode.

Nesnidal, on the other hand, teaches (i.e., Figure 2E) forming a passage hole in a carrier 210; fixing a component 254 on a side of the carrier 210 in such a way that the optically active zone of the component faces the passage hole; and directing a fiber 200 through the passage hole; wherein the surface-oriented optoelectronic component 254 comprises a VCSEL laser diode (column 5, lines 53-55). Figures 2D-2E of Nesnidal is reproduced below.



The motivation for combining Nesnidal with Miles is given in column 2, lines 30-35 by Nesnidal (i.e., low cost and reduced form factor). Therefore, it would have been obvious to one

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of ordinary skill at the time of the claimed invention to obtain the invention specified by claims 14 and 18 in view of Miles combined with Nesnidal.

Allowable Subject Matter

12. Claims 2, 3, 15, and 16-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 2-3 and 16-17, the primary reason for allowance of the claims is the inclusion of the step of bringing close together the component and the fiber in such a way that the adhesive propagates between the end face of the fiber and the projecting structure, thereby bringing about a self-centering of the fiber relative to the component. Regarding claim 15, the primary reason for allowance of the claim is the inclusion of the step of electrically connecting electrical connections of the component to conductor tracks present on the carrier, wherein the electrical connections reside in a region associated with the passage hole and the conductor tracks project into the associated region.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patent No. 4,690,495 to Giannini also reads on at least claim 1 but is not being applied as prior art at this time. Applicant is advised that unforeseeable amendments to the claims may result in a Final Rejection of the claims in view of Giannini and/or in view of additional prior art yet to be cited.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Omar Rojas whose telephone number is (571) 272-2357. The examiner can normally be reached on Monday-Friday (12:00PM-8:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rod Bovernick, can be reached on (571) 272-2344. The official facsimile number for regular and After Final communications is (571) 273-8300. The examiner's RightFAX number is (571) 273-2357.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Omar Rojas
Patent Examiner
Art Unit 2874

or September 26, 2006

> SUNG PAK DRIMARY EXAMINER